

MATH CHALLENGE

of the ECU Math Club

MC12

Let $f(x) = \frac{3^x}{3^x + \sqrt{3}}$. Without the use of a computer or calculator, find the exact value of the sum

$$f\left(\frac{1}{2021}\right) + f\left(\frac{2}{2021}\right) + f\left(\frac{3}{2021}\right) + \dots + f\left(\frac{2020}{2021}\right).$$

Submissions due: 12:00 pm, February 17, 2021

Submit solutions to Atilla.Sit@eku.edu (PDF only).

Solutions must include all supporting work.

Top solvers will be recognized.

First three correct submissions will also receive a small prize!

